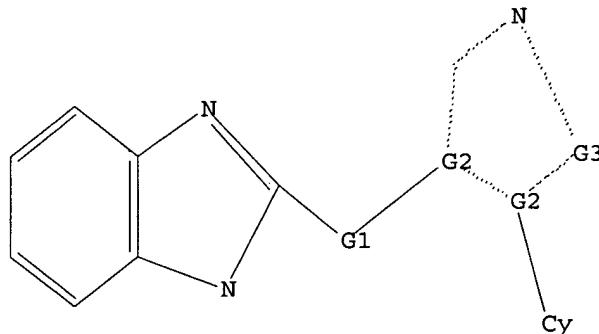


PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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 L1 STRUCTURE UPLOADED

=> d l1  
 L1 HAS NO ANSWERS  
 L1 STR



G1 CH2,CH,C,O  
 G2 C,N,CH  
 G3 C,O,N,CH2,CH

Structure attributes must be viewed using STN Express query preparation.

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 SAMPLE SCREEN SEARCH COMPLETED - 5307 TO ITERATE  
 18.8% PROCESSED 1000 ITERATIONS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.01  
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FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
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 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full  
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 FULL SCREEN SEARCH COMPLETED - 106038 TO ITERATE

100.0% PROCESSED 106038 ITERATIONS  
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L3 10 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.15	148.36

FILE 'CAPLUS' ENTERED AT 09:41:08 ON 11 MAR 2003  
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FILE COVERS 1907 - 11 Mar 2003 VOL 138 ISS 11  
 FILE LAST UPDATED: 10 Mar 2003 (20030310/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:556140 CAPLUS  
 DN 137:125159  
 TI Preparation and antiviral activity of heterocyclic substituted 2-methylbenzimidazole antiviral agents  
 IN Yu, Kuo-Long; Civiello, Rita L.; Combrink, Keith D.; Gulgeze, Hatice Belgin; Sin, Ny; Wang, Xiangdong; Meanwell, Nicholas; Venables, Brian Lee; Zhang, Yi; Pearce, Bradley C.; Yin, Zhiwei; Thuring, Jan Willem  
 PA USA  
 SO U.S. Pat. Appl. Publ., 89 pp.  
 CODEN: USXXCO

DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002099208	A1	20020725	US 2001-994012	20011116
	WO 2002062290	A2	20020815	WO 2001-US45149	20011120
	WO 2002062290	A3	20021121		
				W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
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BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 PRAI US 2000-257139P P 20001220  
 OS MARPAT 137:125159

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:487553 CAPLUS  
 DN 137:47200  
 TI Aryl or heteroaryl fused imidazoles as selective GABAA receptor ligands  
 IN Li, Guiying; Peterson, John M.; Albaugh, Pamela; Currie, Kevin S.; Cai, Guolin; Gustavson, Linda M.; Lee, Kyungae; Hutchison, Alan; Singh, Vinod; Maynard, George D.; Yuan, Jun; Ling, Hong Xie; Ghosh, Manuka; Liu, Nian; Luke, George P.; Mitchell, Scott; Allen, Martin Patrick; Liras, Spiros  
 PA Neurogen Corporation, USA; Pfizer Inc.  
 SO PCT Int. Appl., 309 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002050062	A2	20020627	WO 2001-US50038	20011221
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	AU 2002032768	A5	20020701	AU 2002-32768	20011221
PRAI	US 2000-257492P	P	20001221		
	WO 2001-US50038	W	20011221		
OS	MARPAT	137:47200			

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS  
 AN 1992:128783 CAPLUS  
 DN 116:128783  
 TI Stable, 2-unsubstituted imidazole-3-oxides  
 AU Hossbach, Rosemarie; Lettau, H.; Nuhn, P.; Schneider, R.; Stenger, P.; Stiebitz, Beate  
 CS Sekt. Pharm., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, D-4020, Germany  
 SO Pharmazie (1991), 46(6), 412-15  
 CODEN: PHARAT; ISSN: 0031-7144  
 DT Journal  
 LA German  
 OS CASREACT 116:128783

=> d ibib abs hitstr 1

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:556140 CAPLUS  
 DOCUMENT NUMBER: 137:125159  
 TITLE: Preparation and antiviral activity of heterocyclic substituted 2-methylbenzimidazole antiviral agents  
 INVENTOR(S): Yu, Kuo-Long; Civiello, Rita L.; Combrink, Keith D.;

Gulgeze, Hatice Belgin; Sin, Ny; Wang, Xiangdong;  
 Meanwell, Nicholas; Venables, Brian Lee; Zhang, Yi;  
 Pearce, Bradley C.; Yin, Zhiwei; Thuring, Jan Willem

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 89 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

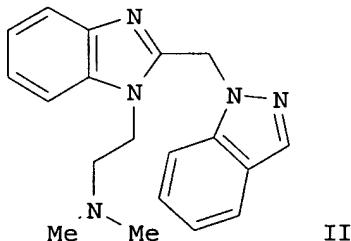
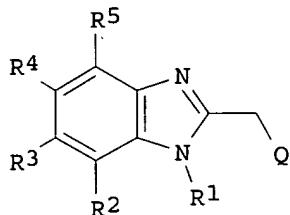
LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	X	APPLICATION NO.	DATE
US 2002099208	A1	<u>20020725</u>		US 2001-994012	20011116
WO 2002062290	A2	<u>20020815</u>		WO 2001-US45149	20011120
WO 2002062290	A3	<u>20021121</u>			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
PRIORITY APPLN. INFO.:				US 2000-257139P	P 20001220
OTHER SOURCE(S):				MARPAT	137:125159
GI					



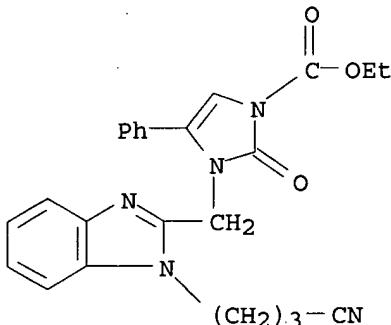
AB The title compds. [I; R1 = (CRaRb)nX; Ra, Rb = independently H, C1-6 (un)substituted alkyl; X = H, C1-6 (un)substituted alkyl; n = 1-6; R2, R5 = independently H or halogen; R3, R4 = independently H, halogen, C1-6 (un)substituted alkyl; Q = heterocyclic group], useful in the treatment of viral infections, more particularly, for the treatment of respiratory syncytial virus infection, were prep'd. E.g., a four-step synthesis of II, starting with 2-(chloromethyl)benzimidazole, was given. The antiviral activity of these compds. against respiratory syncytial virus (RSV) was detd. in HEp-2 (ATCC CCL 23) cells. The title compds. I, disclosed herein, show antiviral activity with EC50s between 50 .mu.M and 0.001 .mu.M.

IT 443987-53-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (prepn. and use of heterocyclic substituted 2-methyl-benzimidazole antiviral agents)

RN 443987-53-9 CAPLUS

CN 1H-Imidazole-1-carboxylic acid, 3-[[1-(3-cyanopropyl)-1H-benzimidazol-2-yl]methyl]-2,3-dihydro-2-oxo-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



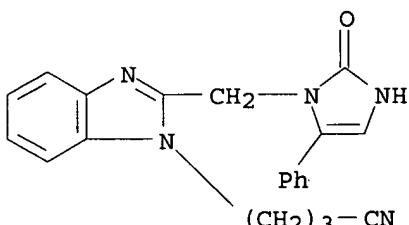
IT 443986-62-7P 443987-54-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and use of heterocyclic substituted 2-methyl-benzimidazole antiviral agents)

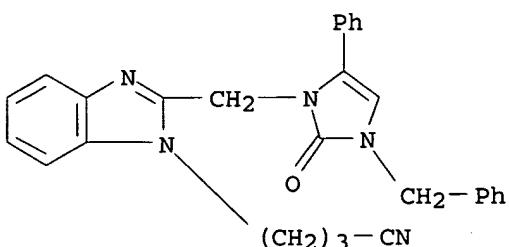
RN 443986-62-7 CAPLUS

CN 1H-Benzimidazole-1-butanenitrile, 2-[(2,3-dihydro-2-oxo-5-phenyl-1H-imidazol-1-yl)methyl]- (9CI) (CA INDEX NAME)



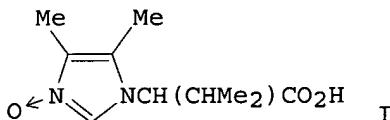
RN 443987-54-0 CAPLUS

CN 1H-Benzimidazole-1-butanenitrile, 2-[[2,3-dihydro-2-oxo-5-phenyl-3-(phenylmethyl)-1H-imidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



=&gt; d ibib abs hitstr 3

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1992:128783 CAPLUS  
 DOCUMENT NUMBER: 116:128783  
 TITLE: Stable, 2-unsubstituted imidazole-3-oxides  
 AUTHOR(S): Hossbach, Rosemarie; Lettau, H.; Nuhn, P.; Schneider, R.; Stenger, P.; Stiebitz, Beate  
 CORPORATE SOURCE: Sekt. Pharm., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, D-4020, Germany  
 SOURCE: Pharmazie (1991), 46(6), 412-15  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 116:128783  
 GI



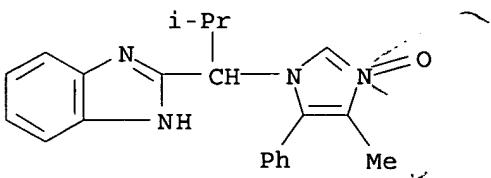
AB Condensation reaction of  $\alpha$ -diketone monoximes with HCHO in the presence of amino acids in H<sub>2</sub>O-EtOH gave 1-carboxyalkyl(aryl)imidazole oxides e.g. I. Cyclocondensation of 4-HO<sub>2</sub>CC<sub>6</sub>H<sub>4</sub>NHCOC(:NOH)COCH<sub>2</sub> with primary amines in the presence of HCHO in H<sub>2</sub>O-EtOH also gave 63-89% 4-(4-carboxyphenylaminocarbonyl)-5-methylimidazole 3-oxides. Similarly reaction of 2-hydroxyimino-3-oxobutanoic acid anilides with HCHO and primary amines gave 55-98% 1-alkyl(aryl)-4-arylaminoimido-5-methylimidazole 3-oxides. Benzimidazole 3-oxides and naphth[2,3-d]imidazole 3-oxides were also prepd. for 5-chloro-1,2-benzoquinone 2-oxime and 1,2-naphthoquinone 1-oxime resp. Cyclization of carboxylic group of prepd. compds. with 2-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> in HCl gave 1- $\alpha$ -(benzimidazol-2-yl)ethyl-4,5-dimethylimidazole 3-oxides.

IT 139326-01-5P 139326-02-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

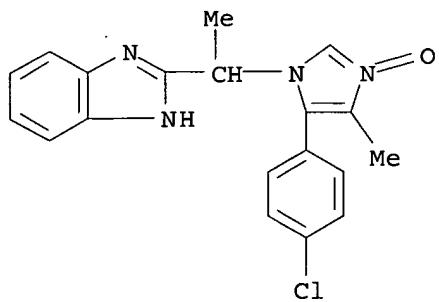
RN 139326-01-5 CAPLUS

CN 1H-Benzimidazole, 2-[2-methyl-1-(4-methyl-3-oxido-5-phenyl-1H-imidazol-1-yl)propyl]- (9CI) (CA INDEX NAME)



RN 139326-02-6 CAPLUS

CN 1H-Benzimidazole, 2-[1-[5-(4-chlorophenyl)-4-methyl-3-oxido-1H-imidazol-1-yl]ethyl]- (9CI) (CA INDEX NAME)



=> log y			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	14.18	162.54	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	-1.30	-1.30	

STN INTERNATIONAL LOGOFF AT 09:44:15 ON 11 MAR 2003